

D A I L Y

F I E L D

R E P O R T

DATE: March 23, 1987

TIME: 1000 to 1830

PLACE: Cerro Copper Plant Site  
Sauget, IL

WEATHER: Sunny, 60s

PROJECT: JOB 10224A

CERRO COPPER

IEPA RI/FS OVERSIGHT

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S. Silverstein; Cerro (3 copies)

JBC/LJO/ED 10224-1.3

PERSONNEL ON SITE:

<u>Name</u>	<u>Affiliation</u>	<u>Hours</u>
Dave Guyan	Sverdrup	8.5
Dan Sewall	Ecology & Environment (E&E)	8.5
Kevin Phillips	Ecology & Environment (E&E)	8.5
Bridget Haugh	Ecology & Environment (E&E)	8.5

FIELD WORK SUMMARY:

1. Dave Guyan arrived at E&E's field office at 1000. E&E was preparing equipment to sample the six monitoring wells on Cerro Copper's Plant site. Dan Sewall told D. Guyan that each person from E&E will sample a separate well. D. Guyan therefore was not able to observe each well sampling procedure continuously.
2. B. Haugh set up sampling equipment at Well EE-16 (see Attachment A). She wore a Saranex suit, overboots, gloves, and a full-face air purifying respirator. She used a cleaned stainless steel bailer to purge the well of approximately 3-5 well volumes before sampling. The water from the well was first placed into a five-gallon bucket and then transferred to the 55-gallon drum previously used during well development. A stainless steel cable was tied to the bailer. This was kept from touching the ground by coiling it into a wash pan lined with a trash bag.
3. D. Guyan then went to observe D. Sewall at Well EE-13. He wore the same protective clothing as B. Haugh but was not wearing a full-face respirator. He followed the same purging procedure described above.
4. D. Guyan next observed K. Phillips at Well EEG-12. He was wearing the same protective clothing as D. Sewall. He purged the well in the same manner.

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5. D. Guyan then returned to Well EE-16. B. Haugh was just beginning to fill sample bottles. She filled the Volatile Organic (VOA) vials first by directly pouring water from the bailer. She then filled the metal and cyanide bottles. She alternated filling the bottles for E&E and Cerro's split samples with each bailer. The final set of bottles for analysis were the gallon jugs for the HSL Organics. These were also alternately filled.
6. D. Guyan then went to observe D. Sewall filling sample bottles and then K. Phillips. They both filled all bottles in a similar manner.
7. E&E crew members moved to the next set of wells. B. Haugh sampled EE-14, D. Sewall sampled EE-12 and K. Phillips sampled EE-15. All crew members followed their previous procedures. D. Guyan observed each sampler's techniques at various intervals.
8. D. Sewall and K. Phillips departed site at 1315. D. Sewall remained at field office to filter and add preservatives to samples. The samples analyzed for metals used Nitric Acid ( $\text{HNO}_3$ ) as a preservative, and the samples analyzed for cyanide used Sodium Hydroxide ( $\text{NaOH}$ ) as a preservative. Filtering was used for the metals samples only.
9. All crew members departed site at 1400 and went to the Metro Field Office for a break. Work resumed on Cerro's property at 1445. D. Sewall remained at the office to prepare samples. Remaining personnel returned onsite to survey elevations of Dead Creek and to record another set of water level measurements. Water level data is listed below:

<u>Monitoring Well</u>	<u>Top of Water (ft)</u>	<u>Time</u>
EE-12	11.57	1455
EE-13	12.25	1505
EE-14	13.51	1508
EE-15	8.62	1515
EE-16	11.18	1500
EE-112	10.64	1450

10. Surveying and water level measurements were completed at 1600. All personnel returned to the field office. B. Haugh and K. Phillips prepared to sample background well EE-20. B. Haugh began purging well at 1610 employing the procedures previously listed.
11. Sampling was completed at 1700. Personnel then returned to the field office. D. Sewall prepared final samples by filtering and adding preservatives. D. Sewall relinquished all samples to D. Guyan that were collected from Cerro's wells. D. Guyan departed office to get ice for these samples.

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12. D. Guyan returned to office at 1750. D. Sewall was still filtering samples. He relinquished remaining samples along with the chain-of-custody records (see Attachment B) to D. Guyan. Sewall said they would finish sampling tomorrow at 0700 on the triangular parcel of land. D. Guyan left field office at 1820 to store samples in Cerro's locked storeroom.
13. D. Guyan took 28 pictures of the field activities.

Attachments

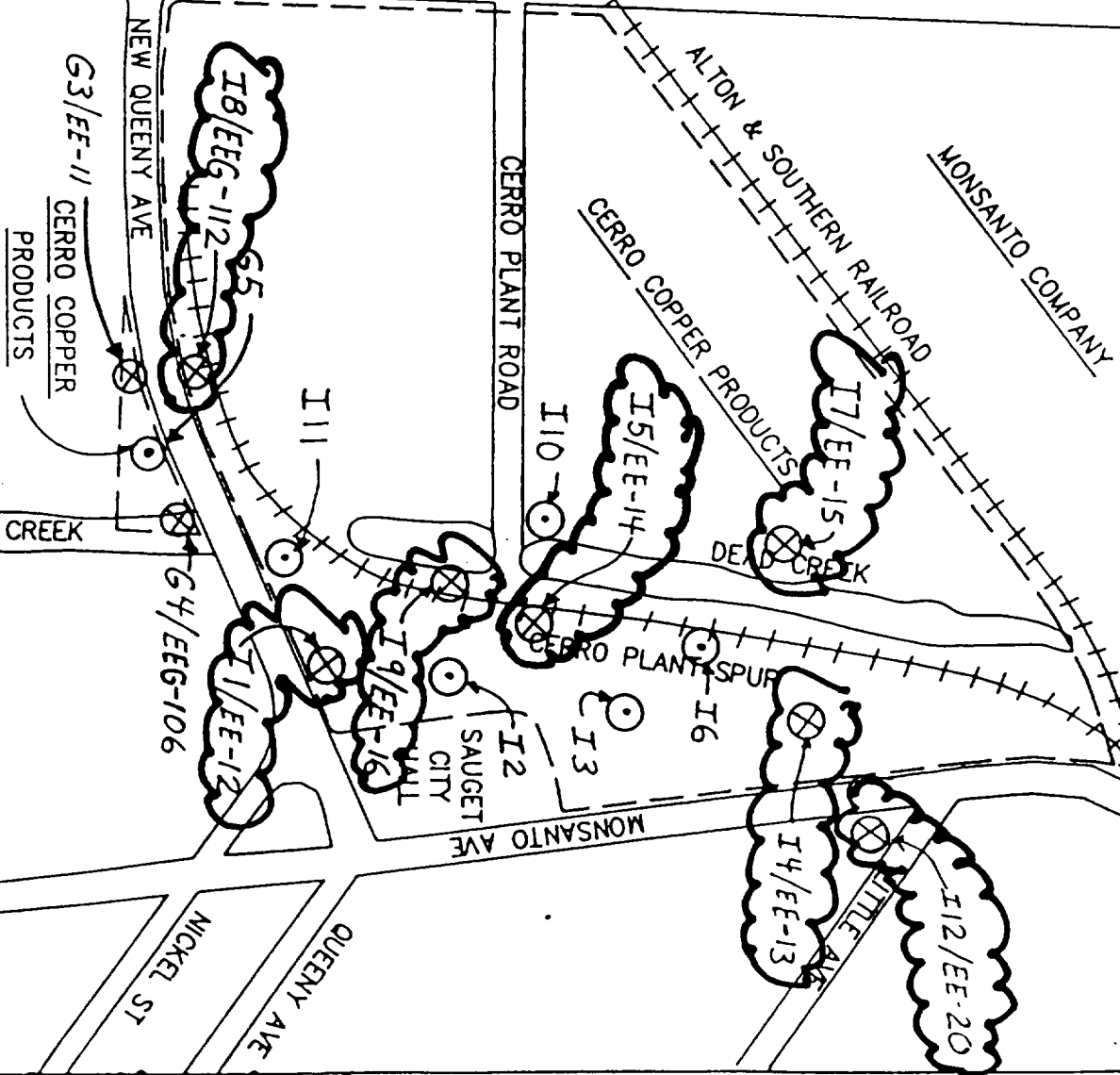
  
Sverdrup Corporation

N  
SCALE: 1" ≈ 400'

- LEGEND**
- CERRO COPPER PROPERTY LIMITS
  - ⊗ GROUNDWATER MONITORING WELL
  - SOIL BORING

TERMINAL RAILROAD  
MONSANTO COMPANY  
CERRO COPPER PRODUCTS  
MIDWEST RUBBER RECLAIMING

MISSISSIPPI AVE (ROUTE 3)



NOTE: NUMBERING LEGEND =  
BORING HOLE ID/ WELL ID  
SITE MAP AND E & E WORK AREAS

ATTACHMENT 12A

CHAIN-OF-CUSTODY RECORD

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Project No.: 143140		Project Name: ARAS CREEK / CAUGAT SITES		Project Manager: A. J. WARE		<div style="display: flex; justify-content: space-between;"> <div>             80.02 AMBER GLASS - 14              40.01 GLASS VIALS - 14              1 LITER PLASTIC - 21           </div> <div>             REMARKS           </div> </div>									
Samplers: (Signatures) <i>David P. Small</i>				Field Team Leader:											

STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	ANALYSIS					REMARKS
			COMB	GRAB	AIR				HL	PM	PL	SL		
14-0033	3/23/87	1030		X			WELL EC-13	6	2	2	1	1	*	SUBMITTED FOR ANALYSIS
14-0034	3/23/87	1200		X			WELL EC-12	6	2	2	1	1		
14-0035	3/23/87	1115		X			WELL AB-G118	6	2	2	1	1		
14-0036	3/23/87	1400		X			WELL EC-14	6	2	2	1	1		
14-0037	3/23/87	1330		X			WELL EC-15	6	2	2	1	1	*	SUBMITTED FOR ANALYSIS
14-0038	3/23/87	1330		X			WELL EC-16	6	2	2	1	1		
14-0031	3/23/87	1630		X			WELL EC-20	6	2	2	1	1	*	SUBMITTED FOR ANALYSIS
														BOTTLES PROVIDED TO SUPERVISOR:
														80.02 AMBER GLASS - 14
														40.01 GLASS VIALS - 14
														1 LITER PLASTIC - 21

Relinquished By: (Signature) <i>David P. Small</i>	Date/Time: 3-23-87/1810	Received By: (Signature) <i>David W. Guyon</i>	Relinquished By: (Signature) <i>David W. Guyon</i>	Date/Time: 3/23/87 1655	Received By: (Signature) <i>Larry J. O'Brien</i>	Ship Via: GARYHOUND
Relinquished By: (Signature) <i>David P. Small</i>	Date/Time: 3/23/87/0930	Received By: (Signature) <i>David W. Guyon</i>	Relinquished By: (Signature) <i>David W. Guyon</i>	Date/Time:	Received By: (Signature)	BL/Airball Number: 162718739-7
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 3/25/87

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files  
\*See CONCENTRATION RANGE on back of form.

ATTACHMENT B